

**World Vegetable Center**

**field report**

Inviolate Dominick1, Ritha Luoga1

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[www.africa-rising.net](http://www.africa-rising.net)

The [Africa Research In Sustainable Intensification for the Next Generation](http://africa-rising.net/) (Africa RISING) program comprises three research-in-development projects supported by the United States Agency for International Development (USAID) as part of the U.S. Government’s Feed the Future initiative.

Through action research and development partnerships, Africa RISING is creating opportunities for smallholder farm households to move out of hunger and poverty through sustainably intensified farming systems that improve food, nutrition, and income security, particularly for women and children, and conserve or enhance the natural resource base.

The three regional projects are led by the International Institute of Tropical Agriculture (in West Africa and East and Southern Africa) and the International Livestock Research Institute (in the Ethiopian Highlands). The International Food Policy Research Institute leads the program’s monitoring, evaluation and impact assessment.

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# Name of traveler(s)

1. Ritha Luoga
2. Gilbert Mushi
3. Inviolate Dominick

## Purpose of trip

1. To facilitate farmers to transplant vegetable seedlings in demo plots in selected 8 villages for 1st generation to assess the benefits of technologies on performance of different vegetable varieties in Karatu District
2. To train farmers and extension Agent and farmers managing demo plots in selected villages on data collection

# Country/countries visited

* Tanzania

## Dates of trip

* 31 August- 5 September 2020

## Budget source

* Africa RISING ESA project, 10000175-13

## List of people met during the trip and their contact details

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| --- | --- | --- |
| **Name** | **Title** | **Contact** |
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# Important results/information gathered during the trip

## Transplanting of seedlings in experiment Trials

* The trial was set in 8 locations; Chemchem, Rhotia- Kainam, Bashay, Bugeri, Changarawe, Kambi ya Simba, Slahhamo and G’lambo villages.
* Three vegetable types namely tomato (variety-Tanya), Ethiopian mustard (variety-Rungwe) and nightshade (variety-Nduruma) were transplanted in 64 demo plots which followed Good Agricultural Practices ( GAP) such as field sanitation, proper spacing, planting in lines, mulching, application of manure, irrigation and in control plots or farmer practice which followed standard farmer practices (SFPs).
* Tomato was transplanted into 2 raised beds, with each having a plot size of 6×1 m2 and 20 plants per bed with spacing of 60×50 cm. For nightshade and Ethiopian mustard, the same plot size (6×1 m with 2 beds) and spacing 30×30 cm was used.
* In the trial plots under improved practice, organic manure (compost and farmyard), was applied at the rate of 0.5 kg per hole before transplanting.
* The farmers managing the experimental plots were trained and sensitized on how to take precaution and management of pest and diseases through application of IPM practices such as removal of pests from crop by hand, Good Agricultural Practices (GAP), and use of natural pesticides prepared from hot pepper, onions, gallic and ashes.
* Farmers were urged to manage and closely follow up the newly transplanted seedlings in demo plots, and to always identify the pests and diseases then decide the appropriate control measures as taught to them.

# Data collection training

* The objective of the training was to improve the knowledge and skills of extension agents and farmers on data collection; types of data to be collected; how and when the data should be collected, issues to be considered for data collection and methods to be used based on the data collection sheet/booklet provide to each participant.
* The training was conducted at various village locations/sites such as household level where farmer group members decided to gather for training, or at demo plots depending on availability of target group through discussions and experience sharing between participants and facilitators.
* In total 32 people (14 men and 18 women) participated in the trainings, out of which 5 extension agents, 8 farmer trainers and 19 farmer group member representatives from the 8 selected villages.

# Suggestions for follow-up

* Extension agents and farmers with support from Hassan Mndiga carry out pest and disease survey for health management of the crop in all research experiment trials.
* Train farmers on pruning and stalking of tomato plants to allow air circulation to the plant and prevent infection of diseases and insects.
* Wayda Peter (Karatu district focal person) to follow up and facilitate Extension agents in collaboration with farmers managing demo plots on data collection (September 2020- February, 2021)
* Ritha Luoga and Wayda Peter in collaboration with Inviolate Dominick to support/ reinforce on data collection and data entry (September 2020-February 2021) through follow up communications and field visits

# Photos or other supporting forms

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**Figure 1.** Extension agent (in Blue trouser) facilitating demo plot establishment at Rhotia Kainam village. Photos: World Vegetable Center/ curtesy of Inviolate Dominick



**Figure 2.** Farmers applying innovative irrigation method by use of plastic container with holes which saves same purpose as watering can in demo plot at Bugeri Village. Photos: World Vegetable Center/ curtesy of Inviolate Dominick



**Figure 3.** Collection of Materials for preparation of natural pesticides on going at Bugeri Village. . Photos: World Vegetable Center/ curtesy of Inviolate Dominick



**Figure 4.** Discussion regarding data collection by researcher (Left) and farmer trainers on going at Slahamo village. . Photos: World Vegetable Center/ curtesy of Inviolate Dominick



**Figure 5.** Left: Data collection by farmers in demo plot at Kambi ya Simba village